

## E-Series I/Q Demodulator 70 MHz

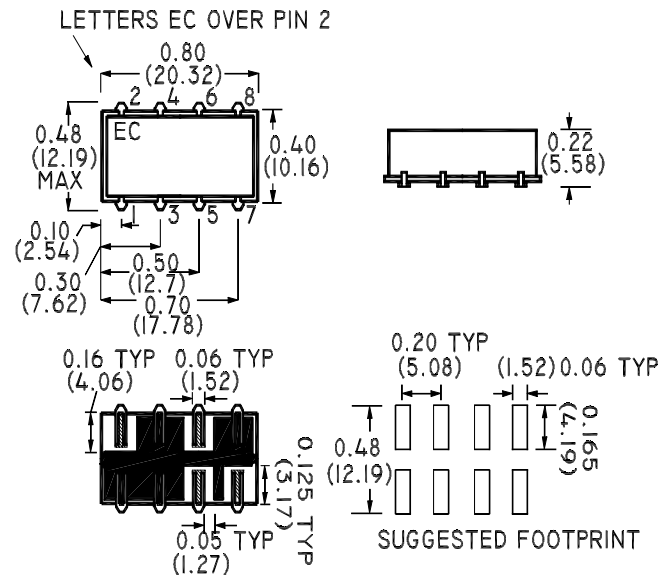


### Features

- Excellent Phase and Amplitude Balance
- LO Power +10 dBm Typical
- Surface Mount



### SM-28 Package



### Description

M/A-COM's EKIN2-70D is a passive, high performance surface mount Demodulator. It is ideally suited for IF demodulation in Cellular Base Stations. Typical system applications include GSM, DCS1800, W-CDMA and PCS.

### Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range	LO / RF 70 I/Q DC - 5	— —	— —	— —
Amplitude Unbalance	dB	0.2	—	1.0
Phase Unbalance	Degrees	0.5	—	2.0
Isolation	LO to RF	65	50	—
Conversion Loss	dB	8.0	—	9.0
(LO) Carrier Power	dBm	+10 ± 2	—	—
Q = I - 90 degrees for RF > LO	—	—	—	—

**Absolute Maximum Ratings**

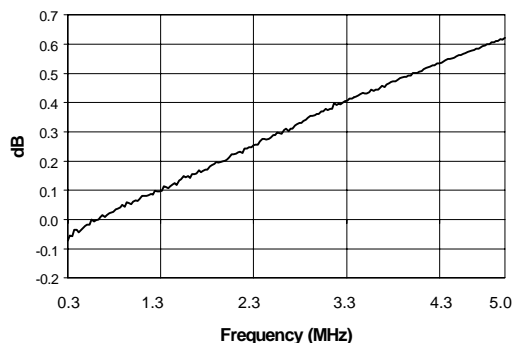
Parameter	Absolute Maximum
Operating Temperature	-10°C to +70°C
Storage Temperature	-55°C to +100°C
Impedance	50 Ohms Nominal
RF Power (1dB Compression)	+4 dBm Max
DC Offset Voltage	1 mV Typ

**Functional Configuration**

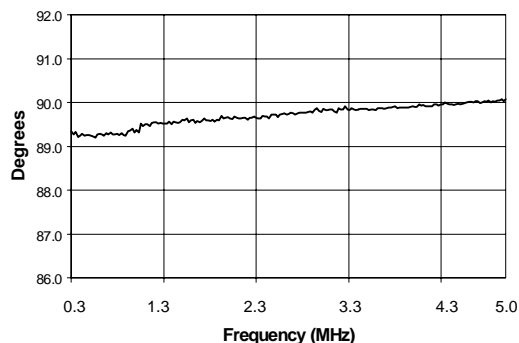
Function	Pin No.
LO	1
RF	8
I	5
Q	6
External 50 Ohms	—
Case Ground	2,4,3,7
Not Connected	—

**Typical Performance @ +25°C**

**Amplitude Unbalance**



**Phase Unbalance**



V2.00 S 0783 D



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